

WHAT IS CLAIMED IS:

1 1. An implantable port comprising
2 a base having a passage for receiving an access tube;
3 a valve assembly in the base, said valve assembly having a bore which
4 receives the access tube and wherein the valve assembly opens in response to movement
5 of the access tube;

6 a valve lock having a latch which shifts position to lock the valve
7 assembly open in response to movement of the access tube.

1 2. An implantable port as in claim 1, wherein the valve assembly
2 opens in response to motion of a needle.

1 4. An implantable port as in claim 3, wherein the valve assembly
2 comprises a plunger and wherein a pair of space-filling elements is displaced both
3 downwardly, to lower the plunger to open the valve, and outwardly into the receptacle, to
4 lock the plunger open.

1 *also 5.* An implantable port as in claim 3, wherein the valve lock
2 comprises a pair of balls which are displaced laterally.

3 maintaining a conduit between an implanted access port and the body
4 lumen, said conduit being opened and closed by a valve within the port; and
5 percutaneously inserting an access tube into an implanted access port,
6 wherein inserting the access tube opens the valve and displaces at least one space-filling
7 element into a receptacle to lock the valve open until the access tube is removed.

1 9. A method as in claim 8, wherein the space filling element is a ball.

1 10. A method as in claim 8, wherein inserting the access tube laterally
2 displaces at least two opposed balls into the receptacle so that the tube holds the balls in
3 place until the tube is removed.

1 11. A method as in claim 8, wherein the bore comprises a tapered bore
2 which seals against the access tube as said tube is inserted therein.

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